**IT Applications Unit 3, AOS 1, Online Communities**

Complete the following, from Chapter 2, Problem-solving Methodology, pgs, 60-80

**Evaluation Criteria and prototype websites, p 76**

**Identifying evaluation criteria**, p 76

1. What is the purpose of evaluating the solution?

Evaluation criteria is used to judge whether a solution has fulfilled the requirement that were identified at the analysis stage of the problem – solving.

1. Give an example of a measure in terms of efficiency and effectiveness.

Allow people to access information in a timely manner (effectiveness). Cut down on the costs associated with sharing information (efficiency)

**Developing a prototype website, p 76**

1. What is a prototype website?

A prototype is a model or simulation of a website that demonstrates its functionality, partial navigation options and interface

Development stage of PSM involve:

* 1. **Using validation**

a. How does validation occur?

Validation involves checking data for accuracy and completeness. This can be done either manually or electronically.

1. **Manipulation to build a solution**
2. List tasks involved with manipulation.

Image compression is one of the most time – consuming and important manipulation tasks of a web designer.

Copying data from a word – processed document, reformatting it and placing it on a webpage is another example of manipulating data into information.

Other manipulation tasks include creating navigation structures, inserting links and designing forms for data gathering.

1. What are cascading style sheets and meta tags?

Meta tag also need to be applied to every image being used, so that the accessibility and meaning of the website is not compromised by a slow Internet connection.

1. **Testing the prototype solution**, p 78

List the testing undertaken for:

* Function
  + List some tests for functionality.
* Our webpages load up
* The navigation design works
* The Cascading Style Sheet for the website is accessed by every page in the website
* Both relative and absolute links within the website work properly
* Images or embedded media objects load up properly
* Alt tags appear when images are turned off in the browser
* The website can be viewed in different screen sizes.
  + What is the difference between an absolute and a relative link?

Absolute links use the exact web address to access the page. Absolute links might be used when navigating to a site external to the prototype.

Relative links access a webpage in relation to where the link is placed. For example, a relative link from the home page might access a page located in another folder on the web server. If the website is moved to another site, this relative link doesn’t need to be changed.

* Appearance
  + List some tests for appearance
* Acceptable formats and conventions have been applied throughout the website – this is easy if you have used Cascading Style Sheets
* The appearance of the prototype website meets the gender, special and cultural needs of the users
* The message of the website is not compromised by a change in screen size
* You can easily identify the organisation on every webpage
* At the bottom of each page there is a clear indication of who created it and when it was last edited
* The navigation bar and the way “home” is easily identified on every webpage.
  1. Draw an example of an effective testing table.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Check that navigation bar work on every page. | Go to the webpage and click on it. | Each link in the navigation on every page are working and leading you to those pages. | Yes/ No | If it works , it’s required result. |
| Testing that home page speed is less than 5 seconds. | Click the webpage and see the speed takes to access. | Try it on each page, click on the homepage link. | Less than 5 or more than 5 seconds. | If less is good, if more than 5 is not good. |
| Testing that images will load up properly when you access the website. | Check all the image you up load on the website. | See all they works or not. | Yes/ No | If all the image is loading normally, it’s good, if not, we need fix the problem. |